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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,857	04/09/2007	Yuji Yasui	108426-00070	5989
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1050 CONNECTICUT AVENUE, N.W.			KAMEN, NOAH P	
SUITE 400 WASHINGTO	ON DC 20036 ARTUNIT PAPER N		PAPER NUMBER	
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			NOTIFICATION DATE	DELIVERY MODE
			03/20/2008	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

DCIPDocket@arentfox.com IPMatters@arentfox.com Patent Mail@arentfox.com

# Application No. Applicant(s) 10/580,857 YASUI, YUJI

Office Action Summary	Examiner	Art Unit					
	Noah Kamen	3747					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MCNITHS from the making date of this communication.  - This prince of cropp's specified above, the remaining date of the communication.  - This prince of cropp's specified above, the remaining date of the specified above, the remaining date of this communication, even if timely filed, may reduce any carried patient term adjustment. See 37 CFR 1.704(b).							
Status							
Responsive to communication(s) filed on	_						
2a) ☐ This action is FINAL. 2b) ☑ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-30 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-30</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	Interview Summary     Paper No(a) Mail Do						
Notice of Draftsperson's Patent Drawing Review (PTO-948)   Paper No(s)/Mail Date							

Paper No(s)/Mail Date 5/26/06.

6) Other: \_\_\_

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#### DETAILED ACTION

### Claim Rejections - 35 USC § 112

Claims 1-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is improper to try to compare the changing rates of valve lift and compression ratio because they are different units..."comparing apples to oranges". Lift has units of length whereas a ratio has no units.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 and 20-23 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 2001-263099. The abstract sets forth a variable compression ratio mechanism in combination with a variable valve timing mechanism that adjusts both phase and lift, and wherein interference between the piston and valve is avoided. Because the rate of change of valve lift and rate of change of compression ratio are not truly comparable (see 112 rejection above); The claims are treated as being broad and indefinite to the degree that because JP'099 avoids interference it can read on the claims.

### Allowable Subject Matter

Claims 5-19 and 24-30 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Noah Kamen whose telephone number is 571 272 4845. The examiner can normally be reached on M-Th 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Cronin can be reached on 571 272 4536. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Noah Kamen Primary Examiner Art Unit 3747

/Noah Kamen/ Primary Examiner, Art Unit 3747